REMARKS

Claims 1, 8, 13, 21, 28, 33, 38, 40, 44, 57, 63, 67 and 70 are amended. Claims 1-75 remain in the application for consideration. In view of the following remarks, Applicant respectfully requests reconsideration and allowance of the subject application

Advisory Action

In the present Advisory Action dated May 27, 2005, the Office considered the previously-filed request for reconsideration, but indicated that it did not place the application in condition for allowance. In the Advisory Action, the Office acknowledged Applicant's argument that Tucker (which the Office argues anticipates all of the claims) does not disclose a user defined editing project. Yet, the Office argued that Applicant's characterization of its user-defined editing project, as described in the specification, was not a part of the claims and hence, the Office was not amenable to considering the term "user defined editing project" or similar terms as defining over Tucker.

Applicant respectfully submits that the term "editing project" in the context of the various claims in which it is used sufficiently distinguishes over Tucker. Nonetheless, in an effort to advance prosecution in this matter, Applicant has amended its independent claims, as will be described below, in an effort to further *clarify* what is meant by the term "editing project".

Applicant submits that these clarifying amendments in no way narrow the claims in which they appear. Rather, these amendments serve only to further describe, in a non-limiting way, terminology that already appears in the claim,

which terminology would be interpreted in light of the specification and in view of the accepted canons of claim construction.

The Claims

Claim 1 has been amended and, as amended recites an editing system comprising [added language appears in bold italics]:

- a switch assembly comprising one or more software-implemented matrix switches, individual matrix switches comprising:
- one or more input pins configured to receive a data stream; and
- one or more output pins configured to output a data stream;
- the one or more input pins being routable to the one or more output pins, the switch assembly being configured to process both compressed and uncompressed data streams to provide a compressed output data stream that represents a user-defined editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". Support for the subject matter of this amendment can be found, among other places in Applicant's Specification, on page 27, line 14 through page 28, line 18, the entirety of which is reproduced below for the convenience of the Office (emphasis added):

> Fig. 9 shows an overview of a process that takes a user-defined editing project and renders from it a data structure that can be used to program the matrix switch.

Specifically, a user-defined editing project is shown generally at 900. Typically, when a user *creates an editing project*, they can select from a number of different multimedia clips that they can then *assemble into a unique presentation*. Each individual clip represents a *source* of digital data or a source stream (e.g., multimedia content). Projects can include one or more sources 902. *In defining their project, a user can operate on sources in different ways*. For example, *video sources can have transitions 904 and effects 906 applied on them*. A transition object is a way to change between two or more sources. As discussed above, a transition essentially receives as input, two or more streams, operates on them in some way, and produces a single output stream. An exemplary transition can comprise, for example, fading from one source to another. An effect object can operate on a single source or on a composite of sources. An effect essentially receives a single input stream, operates on it in some way, and produces a single output stream. An exemplary effect can comprise a black-and-white effect in which a video stream that is configured for presentation in color format is rendered into a video stream that is configured for presentation in black and white format. Unlike conventional effect filters, effect object 906 may well perform multiple effect tasks. That is, in accordance with one implementation, an effect object (e.g., 906) may actually perform multiple tasks on the received input stream, wherein said tasks would require multiple effect filters in a conventional filter graph system.

An exemplary user interface 908 is shown and represents what a user might see when they *produce a multimedia project* with software executing on a computer. In this example, the user has selected three sources A, B, and C, and has assembled the sources into a project timeline. *The project timeline defines when the individual sources are to be rendered, as well as when any transitions and/or effects are to occur.*

As Tucker neither discloses nor suggests any such subject matter, Applicant respectfully submits that this claim is allowable.

Claims 2-7 depend from claim 1 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 1, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 8 has been amended and, as amended, recites an editing system comprising [added language appears in bold italics]:

- a media processing object configured to:
    - receive multiple data streams comprising compressed and uncompressed data streams; and
    - process the one or more data streams to provide a compressed output data stream that represents a *user-defined* media project *in which a user can construct the media project by operating on one or more sources of multimedia content.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "media project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 9-12 depend from claim 8 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 8, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 13 has been amended and, as amended, recites a multi-media editing system comprising [added language appears in bold italics]:

- a switch assembly comprising one or more software-implemented matrix switches, individual matrix switches comprising:
- one or more input pins configured to receive a data stream; and
- one or more output pins configured to output a data stream;

- the one or more input pins being routable to the one or more output pins, the switch assembly being configured to process both compressed and uncompressed data streams to provide a compressed output data stream that represents a user-defined multi-media editing project *in which a user can construct the multi-media editing project by operating on one or more sources of multimedia content that provide said data streams*; and
- one or more data structures associated with the switch assembly and configured for use in programming the switch assembly to provide a routing scheme for routing input pins to output pins for a given multi-media editing project time line.

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 14-20 depend from claim 13 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 13, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 21 has been amended and, as amended, recites a multi-media editing system comprising [added language appears in bold italics]:

- a switch assembly comprising one or more non-hardware matrix switches, individual matrix switches comprising:
  - o one or more input pins configured to receive a data stream; and
  - o one or more output pins configured to output a data stream;

o the one or more input pins being routable to the one or more output pins, the switch assembly being configured to process both compressed and uncompressed data streams to provide a compressed output data stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams*.

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 22-27 depend from claim 21 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 21, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 28 has been amended and, as amended, recites an media processing system comprising [added language appears in bold italics]:

• switch means for receiving compressed and uncompressed data streams associated with sources that are to be incorporated into a *user-defined editing* project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams, said switch means* processing the compressed and uncompressed data streams to provide a single compressed output stream that represents the project; and

- programming means associated with the switch means and configured to program the switch means to provide the single compressed output stream.

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 29-32 depend from claim 28 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 28, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 33 has been amended and, as amended, recites a multi-media editing system comprising [added language appears in bold italics]:

- a first software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the first matrix switch being configured to process one or more uncompressed data streams and output an uncompressed data stream;
- a second software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the second matrix switch being configured to process one or more compressed data streams and output a compressed data stream; and
- a third software-implemented matrix switch comprising multiple input pins and multiple output pins, the input pins being routable to one or more output pins, the third matrix switch being configured to receive an uncompressed data stream from the first switch and a

compressed data stream from the second switch and process the received data streams to provide a single compressed output data stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 34-37 depend from claim 33 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 33, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 38 has been amended and, as amended, recites a multi-media editing system comprising [added language appears in bold italics]:

- first software switch means for processing one or more uncompressed data streams to provide an uncompressed data stream, the switch means comprising at least one feedback loop that modifies a data stream that is output by the switch means and provides the modified data stream as an input to the switch means;
- second software switch means for processing one or more compressed data streams to provide a compressed data stream; and
- a third software switch means for receiving an uncompressed data stream from the first software switch means and a compressed data stream from the second software switch and processing the received data streams to provide a single compressed output data stream that

represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claim 39 depends from claim 38 and is allowable as depending from an allowable base claim. This claim is also allowable for its own recited features which, in combination with those recited in claim 38, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 40 has been amended and, as amended, recites a multi-media editing system comprising [added language appears in bold italics]:

- a first software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the first matrix switch being configured to process one or more uncompressed data streams and output an uncompressed data stream;
- a second software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the second matrix switch being configured to process one or more compressed data streams and output a compressed data stream;
- a third software-implemented matrix switch comprising multiple input pins and multiple output pins, the input pins being routable to one or more output pins, the third matrix switch being configured to receive an uncompressed data stream from the first switch and a

compressed data stream from the second switch and process the received data streams to provide a single compressed output data stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams*; and

- one or more data structures associated with at least some of the matrix switches and configured for use in programming the associated switches to provide a routing scheme for routing input pins to output pins.

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 41-43 depend from claim 40 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 40, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 44 has been amended and, as amended, recites a multi-media editing method comprising [added language appears in bold italics]:

- providing a switch assembly comprising one or more software-implemented matrix switches, individual matrix switches comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the switch assembly being configured to process both compressed and uncompressed data streams to provide a compressed output data stream that represents a user-defined multi-media editing project *in*

which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams; and

- programming the switch assembly using one or more data structures, said programming providing a routing scheme for routing input pins to output pins for a given time period.

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 45-56 depend from claim 44 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 44, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 57 has been amended and, as amended, recites one or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to [added language appears in bold italics]:

- provide a switch assembly comprising multiple software-implemented matrix switches, individual matrix switches comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the switch assembly comprising:
- a first switch configured to process uncompressed data streams to provide an uncompressed output data stream;

- a second switch configured to process compressed data streams to provide a compressed output data stream; and
- a third switch configured to receive both the uncompressed and compressed output data streams and process the data streams to provide a compressed output data stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams*; and
- program the switch assembly by defining a first grid structure containing data that defines an association between the first switch's input pins, at least one output pin and a time line defined by the editing project, and defining a second grid structure containing data that defines an association between the second switch's input pins, at least one output pin and the time line defined by the editing project.

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 58-62 depend from claim 57 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 57, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 63 has been amended and, as amended, recites a multi-media editing method comprising [added language appears in bold italics]:

- providing a first software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the first

matrix switch being configured to process one or more uncompressed data streams and output an uncompressed data stream;

- providing a second software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins, the second matrix switch being configured to process one or more compressed data streams and output a compressed data stream;
- providing a third software-implemented matrix switch comprising multiple input pins and multiple output pins, the input pins being routable to one or more output pins;
- receiving, with the third matrix switch, an uncompressed data stream from the first switch and a compressed data stream from the second switch; and
- processing the received data streams with the third switch to provide a single compressed output data stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 64-66 depend from claim 63 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 63, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 67 has been amended and, as amended, recites one or more computer-readable media having computer-readable instructions thereon which,

when executed by a computer, cause the computer to [added language appears in bold italics]:

- process at least one compressed data stream to provide an output compressed data stream that comprises a portion of a user-defined multi-media editing project that is associated with a data stream source;
- process one or more uncompressed data streams to manipulate the one or more uncompressed data streams to provide an output uncompressed data stream that comprises a different portion of a user-defined multi-media editing project that is associated with one or more data stream sources;
- compress the output uncompressed data stream; and
- associate the output compressed data stream and the compressed output uncompressed data stream together to provide a compressed stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 68-69 depend from claim 67 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 67, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Claim 70 has been amended and, as amended, recites one or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to [added language appears in bold italics]:

- receive and process one or more uncompressed data streams with a first software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins to output an uncompressed data stream;
- receive and process one or more compressed data streams with a second software-implemented matrix switch comprising one or more input pins and one or more output pins, the one or more input pins being routable to the one or more output pins to output a compressed data stream;
- receive and process the uncompressed data stream that is output by the first switch and the compressed data stream that is output by the second switch with a third software-implemented matrix switch comprising multiple input pins individual ones of which receive data streams, and one or more output pins individual ones of which provide data streams, the one or more input pins being routable to the one or more output pins to output, at one output pin, a compressed data stream that represents a user-defined multi-media editing project *in which a user can construct said editing project by operating on one or more sources of multimedia content that provide said data streams.*

In making out the rejection of this claim, the Office argues that its subject matter is anticipated by Tucker. Applicant maintains its position with regard to Tucker as articulated in the previously-filed Office Action Response. Nonetheless, this claim has been amended, as noted above, to clarify the term "editing project". As Tucker neither discloses nor suggests any such subject matter, this claim is allowable.

Claims 71-75 depend from claim 70 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features which, in combination with those recited in claim 70, are neither disclosed nor suggested in the references of record, either singly or in combination with one another.

Conclusion

Applicant has sincerely made an attempt to advance prosecution in this matter. The Office continues to maintain its position with respect to Tucker. Applicant respectfully requests a Notice of Allowability be issued forthwith. In the event the next action is to be anything other than issuance of a Notice of Allowability, Applicant respectfully requests a telephone call for the purpose of scheduling an interview.

Respectfully Submitted,

Dated: 7/22/05

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